

Turnstile device

The invention relates to a turnstile suitable for the controlled admittance of persons to a building or to an otherwise enclosed or guarded area, comprising a body mounted on a rotatable and blockable axis, which body is provided 5 with at least three arms extending from the body, the arms being oriented such that when rotation of the body is blocked, at least one of the arms is positioned to prevent passage.

Such a turnstile device is generally known from 10 practice and is used, for example, as admittance control unit at airports and railway stations. The latter application is used mainly abroad. Such turnstile devices can also be found as admission control units at places of public amusement such as zoological gardens, swimming pools, and the like.

15 One problem of the known turnstile device is that passing through this turnstile device while taking along hand luggage meets with difficulties. Passage is then impossible because the turnstile device does not allow sufficient room. The biggest problems arise when taking along a luggage trolley 20 or a suit bag or laptop bag.

It is the object of the invention to provide a turnstile device with which these problems do not exist, so that a passing person can carry luggage along with him, while the function of the admittance control is maintained.

25 To this end the turnstile device according to the invention is characterized in that the arms extend substantially horizontally or at an angle upwards from the body.

The appearance of the turnstile device according to the invention may briefly be characterized as the known turnstile device turned 180°. However, for an optimised function 30 of the turnstile device according to the invention more is needed than merely rotating the known turnstile device 180°. This will be discussed below.

In a further aspect of the invention the turnstile 35 device is characterized in that the number of predetermined

blockable positions of the body is at least equal the number of arms provided on the body. In this way the admission controlling function can be carried out adequately.

5 In every blockable position of the body it is desirable for at least one of the arms to be set in a substantially horizontal position.

A further aspect of the invention is that in every blockable position of the body the non-horizontal arms extend at an angle upwards in a direction pointing away from the 10 passage obstructed by the horizontally positioned arm. This configuration of the arms means that the turnstile device according to the invention can be passed without problems even while carrying luggage, while in addition adequately reducing the danger of the person who passes through coming into sharp 15 contact with the non-horizontal arms.

As further protection for persons passing through it is preferred for the free ends of the arms to be rounded-off. The invention will now be further elucidated with reference to the drawing, which

20

- in Figure 1 shows a side view of the turnstile device according to the invention;
- in Figure 2 shows a front view of the turnstile device according to the invention;
- in Figure 3 a shows a top view of the turnstile device according to the invention.

25

Identical parts in the figures are identified by the same reference numbers.

According to the invention, the turnstile device 1 serves for the controlled admittance of persons 2 to a building or otherwise enclosed or guarded area.

The turnstile device 1 is constructed on a base 3 in which a rotatable and blockable axis is mounted. This axis is not shown in the figures but is incorporated in the base 3 in a manner completely known to the person skilled in the art. 35 On the said axis a body 4 is mounted, which accordingly rotates with the axis (not shown) and knows blocked positions determined by the axis.

As shown in the figures, the body 4 is provided with at least three arms 5,6,7 extending from the body 4. These

are mounted on the body 4 in such a manner that when the body 4 is being turned to a predetermined blocking position, at least one arm, in the case illustrated arm 5, assumes a position that blocks the passage.

5 The figures clearly show that the arms 5, 6, 7 extend from the body 4 substantially horizontally, arm 5, or at an angle upwards, arms 6 and 7.

10 The predetermined blocked positions that the body 4 is able to assume must at least coincide with the number of arms provided on the body 4. In the case illustrated therefore, the body 4 must have at least three blocking positions, each separate blocking position corresponding with a substantially horizontal position of one of the arms. In the case 15 illustrated this is arm 5. The other arms of the turnstile device 1 are at that moment in a position extending upwards at an angle, in a direction pointing away from the passage blocked by the horizontally positioned arm 5. This can be clearly seen in Figures 2 and 3. A person 2 with a luggage trolley or another item of luggage is thus able to pass the 20 turnstile device 1 without any problems.

The figures further show that the arms 5, 6, 7 have a rounded-off free end 9, 10, 11, for the protection of the passing person.